| MMM MMM MMM | | MMM MMM MMM | 111111111111111 1111111111111111 111111 | AAAAAA AAAAAA AAAAAA | N . | AAAAAAA AAAAAAA | A | 00000000000 00000000000000000000000000 | PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP | • |
|-------------------|-----|-------------------|---|----------------------------|-----|--------------------|------|---|--|----------|
| MMMMMM | | MMMMM | TTT | AAA | AAA | AAA | AAA | CCC | PPP | PPP |
| MMMMMM | M | MMMMM | TTT | AAA | AAA | AAA | AAA | CCC | PPP | PPP |
| MMMMMM | M | MMMMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | PPP |
| | MMM | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | PPP |
| | MMM | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | PPP |
| | MMM | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | PPP |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPPPPPPPPPP |) |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPPPPPPPPPP |) |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPPPPPPPPPP |) |
| MMM | | MMM | TTT | AAAAAAAAAA | AAA | ***** | AAAA | ČČČ | PPP | |
| MMM | | MMM | TTT | AAAAAAAAA | | ****** | AAAA | ČČČ | PPP | |
| MMM | | MMM | TTT | AAAAAAAAA | AAA | AAAAAAAAAA | | ČČČ | PPP | |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | |
| MMP, | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČ | PPP | |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | 000000000000000000000000000000000000000 | PPP | |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | 000000000000 | PPP | |
| MMM | | MMM | TTT | AAA | AAA | AAA | AAA | ČČČČČČČČČČČČČ | PPP | |

| | TT (TTTTTTT TT TT TT TT TT TT TT TT TT TT TT | AAAAA AA AA AA AA AA AA AA AA AA AA AAAAAAAA | | | RRRRRRRR RRRRRRR RR RR RR RR RR RR RRRRRR | •••• |
|--|--|--|--|--|--|------|
| | | \$ | | | | |

VO4

; f

, '

VO

```
MODULE WTATTR ( LANGUAGE ( BLISS32 ) , IDENT = 'V04-000' ) = BEGIN
```

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FACILITY: MTAACP

ABSTRACT:

This module handles the writing of attributes on a create

ENVIRONMENT:

STARLET operating system, including privileged system services and internal exec routines.

AUTHOR: D. H. GILLESPIE, CREATION DATE: 2-JUN-77

! MODIFIED BY:

V03-002 LMP0221 L. Mark Pilant, 12-Apr-1984 12:11 Change UCB\$L_OWNUIC to ORB\$L_OWNER and UCB\$W_VFROT to ORB\$W_PROT.

V03-002 MMD0278 Meg Dumont, 23-Mar-1984 10:09 Change the processing of the accessibility character fields in the HDR1 label to call the installation specific accessibility routine. The return from this routine determines the users access to the file.

(1)

Page

```
58
59
                                          fix long file name support such that for ANSI version 3 volumes it converts the exentsion length to
               0058
               0059
 60
               0060
                                          ASCII chars before writing it to the label.
 61
               0061
 62
63
               0062
                                 V03-001 MMD0156
                                          MMD0156 Meg Dumont, 26-Apr-1983 9:16
Add support fot interchange qualifier. Add support for long
                                          file name in WANSINAME, by soliting the long name between
 64
               0064
               0065
                                          the HDR1 FILE_ID and the HDR4 lables.
 66
67
               0066
               0067
                                 V02-016 DMW00080
                                                            David Michael Walp
                                                                                        2-Mar-1982
 68
69
70
               8000
                                          Added check for variable records greater then 9995
               0069
               0070
                                 V02-015 DMW00074
                                                            David Michael Walp
                                                                                        5-Feb-1982
 71
               0071
                                          Changed StatBik to no-op
 72
73
74
               0072
0073
                                 V02-014 DMW00066
                                                            David Michael Walp
                                                                                        8-Jan-1982
               0074
                                          Added HDR1 access character support
 75
               0075
               0076
 76
                                 V02-013 DMW00061
                                                            David Michael Walp
                                                                                        7-Dec-1981
 77
               0077
                                          Rename TRANSLATION_TABLE to ANSI_A_BAD
 78
               0078
 79
               0079
                                 V02-012 DMW00051
                                                            David Michael Walp
                                                                                       10-Nov-1981
 80
               0080
                                          Change SELECTONE to CASE, return length of ASCNAME
 81
               0081
                                          ( not just a flag )
 82
83
              0082
               0083
                                 V02-011 DMW00046
                                                           David Michael Walp
                                                                                       28-0ct-1981
                                          Added ANSI "a" character support for file name, reformat
 84
               0084
 85
               0085
 86
              0086
                                 ~02-010 DMW00042
                                                            David Michael Walp
                                                                                        2-0ct-1981
 87
              0087
                                          Added support binary zero input dates
 88
              0088
 89
              0089
                                 V02-009 DMW00029
                                                            David Michael Walp
                                                                                       10-Aug-1980
 90
              0090
                                          Added stream file support and removed V2.0 HDR2 temp support
 91
              0091
 92
93
              0092
                                 V02-008 DMW0004
                                                            David Michael Walp
                                                                                       11-Nov-1980
              0093
                                          New BLISS compiler, FUNCTION declaration changed from
 94
              0094
                                          BBLOCK to BLOCK. Old compiler used to give a longword with a declartion of 'BBLOCK [1]'.
 95
              0095
 96
97
              0096
              0097
                                 VO2-007 REFORMAT
                                                            Maria del C. Nasr
                                                                                       30-Jun-1980
 98
99
               0098
               0099
                                 V02-006 MCN0015
                                                            Maria del C. Nasr
                                                                                       10-Jun-1980
100
               0100
                                          Write form control attribute in HDR2 too, and clean
101
               0101
                                          undefined attributes of HDR3.
102
              0102
                                 A0005
                                         MCN0008
                                                                                       22-Feb-1980
                                                            Maria del C. Nasr
                                                                                                       16:36
104
               0104
                                          Temporary support of RMS attributes in HDR2
105
               0105
106
               0106
                                 A0004
                                          MCN0005
                                                            Maria del C. Nasr
                                                                                       05-Nov-1979
                                                                                                      11:30
107
               0107
                                          Eliminate [VCB$V_INTCHG] (interchange) switch
108
               0108
109
               0109
                                 A0003
                                          MCN0003
                                                                                       16-0ct-1979
                                                            Maria del C. Nasr
                                                                                                      14:28
110
               0110
                                          Add HDR3 processing
               0111
111
112
              0112
114
               0114
                       LIBRARY 'SYS$LIBRARY:LIB.L32';
```

V0

```
0115
111789012234567890123456789
                               1 REQUIRE 'SRCS:MTADEF.B32':
                     0501
0502
0503
0504
0505
0507
0508
                                  FORWARD ROUTINE WANSINAME
                                         WANSINAME : COMMON CALL NOVALUE,
WBINDATE : NOVALUE,
WBLOCKSZ : COMMON CALL NOVALUE,
WEXPIREDT : NOVALUE,
WRECATTR : COMMON CALL NOVALUE,
WRITE_ATTRIBUTE : COMMON CALL NOVALUE;
                                                                                                                     write ANSI 'a' filename write 64_bit date
                                                                                                                     write block size
                                                                                                                     write expiration date
                                                                                                                     write record attributes
                                                                                                                     write attributes, main
                     0509
0510
                                  EXTERNAL CURRENT_UCB
                                                                   : REF BBLOCK, : REF BBLOCK,
                                                                                                                     address of UCB
                      0511
                                         HDR1
                                                                                                                     address of HDR1 label
                     0512
0513
                                         HDR2
HDR3
                                                                    : REF BBLOCK,
                                                                                                                     address of HDR2 label address of HDR3 label
                                                                   : REF BBLOCK,
: REF BBLOCK,
                      0514
                                         HDR4
                                                                                                                     address of HDR4 label
                      0515
                                         NMBLOCK
                                                                    : BBLOCK [10]:
                                                                                                                    name block
                     0516
0517
                                 EXTERNAL ROUTINE GET RECORD, SYS$FAO
                      0518
                                                                   ! get current record tape is reading : ADDRESSING_MODE (ABSOLUTE); ! change to hexadecimal
                     0519
0520
0521
0522
0523
                                  OUN
                                                                                                                    maximum record length length of VFC header
                                                                    : WORD,
140
                                         VF CHDR
                                                                    : WORD,
                     0524
0525
0526
0527
141
                                         BLOCKSZ:
                                                                                                                  ! block size
142
                                  BIND
144
                                         CVT5 = DESCRIPTOR ('!5ZW'),
CVT8 = DESCRIPTOR ('!8XL');
                     0528
146
147
                     0529
                     0530
                                  GLOBAL
148
                                         ANSI_NAME_SIZE : SIGNED BYTE;
149
```

WTATTR

V04-000

```
151
153
153
155
156
157
159
                          GLOBAL ROUTINE WRITE_ATTRIBUTE : COMMON_CALL NOVALUE =
                0535
0535
0535
0538
0538
05538
                        1
                           1++
                             FUNCTIONAL DESCRIPTION:
                                     This routine writes attributes into HDR1 and HDR2
                 0540
                             CALLING SEQUENCE:
                0541
0542
0543
                                     WRITE_ATTRIBUTE()
160
161
                             INPUT PARAMETERS:
162
163
                0544
                                     none
                             IMPLICIT INPUTS:
164
                0546
0547
0548
05551
05551
05553
0555
165
                                     10_PACKET - address of current 10 request packet
166
167
                             OUTPUT PARAMETERS:
168
                                    none
169
170
                             IMPLICIT OUTPUTS:
171
                                     none
172
173
                             : BULAV BALTUCS
174
                0556
0557
                                    none
176
                 0558
                             SIDE EFFECTS:
177
                 0559
                                    none
                0560
178
179
                 0561
                0562
0563
0564
0565
180
181
                                BEGIN
182
183
                                EXTERNAL REGISTER
                                                                                       ! here so main expection
                0566
0567
184
                                                                                       ! handler can touch the VCB
                                    COMMON_REG;
185
                0568
186
                                EXTERNAL
187
                0569
                                    ATR_TABLE
                                                   : BLOCKVECTOR [ATR$C_MAX_CODE, 1], ! attribute table
                0570
                                     10 PACKET
188
                                    IO_PACKET : REF BBLOCK,
ANSI_A_GOOD : VECTOR [ 256, BYTE ];
                                                                                                   addr of current IRP
                0571
0572
0573
0574
                                                                                                 ! translation table
189
190
191
                               MACRO EQLLEN = 0, 24, 8, 0%;
MACRO MAX = 0, 0, 8, 0%;
192
                0575
0576
0577
193
194
                                    ACCESS_INPUT,
195
                                                                                         set for whether access cahr specified
                0578
0579
                                            E VECTOR [4,BYTE],
196
                                     CHAR
                                                                                         accessibility char to write to label
197
                                    CURRENT_RECORD,
                                                                                       ! Record tape drive is reading
198
                 0580
                                     STATUS.
                                    CHAR_INPUT : BYTE,
DESCR : VECTOR [2,LONG],
199
                0581
                                                                                         Access char from ATR block
                0582
0583
200
                                                                                         descriptor of output for FAO
201
                                               : REF BBLOCK,
                                                                                         MVL of volume
                                     MVL
                                    PACKET : REF BBLOCK,
ABD : REF BBLOCKVECTOR [, ABD$C_LENGTH],
ORB : REF BBLOCK,
202
                0584
                                                                                          IO packet address
                 0585
                                                                                         i], ! addr of desc vector
Object's rights block address
204
                 0586
205
                 0587
                                                                                         number of bits set
                                     BITS,
206
207
                                     P.
CÓDE.
                 0588
                                                                                         pointer to attribute
                 0589
                                                                                         attribute code
```

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```
Page
```

```
208
209
210
               0590
                                  COUNT:
                                                                                 ! number of char in attribute
               0591
               0592
0593
211
                             PACKET
                                                  .10_PACKET;
212
213
214
215
                                                   BBCOCKC.PACKETCIRP$L_SVAPTE], AIB$L_DESCRIPT];
               0594
                             ABD
                                                =
               0595
                             MRS
                                                =
                                                                                   default record size
               0596
                             BLOCKSZ
                                                =
                                                                                   default record size
               0597
                                                = 0:
                             VFCHDR
                                                                                   initialize VFC header count
216
               0598
                             ANSI_NAME_SIZE
                                               = -1
                                                                                   no ANSI file name
217
               0599
                             ACCESS INPUT
                                                = MTASK_NOCHAR;
                                                                                  Assume no access char passed
218
               0600
219
               0601
                             INCRU I FROM ABD$C_ATTRIB TO .PACKET[IRP$W_BCNT] - 1 DO
               0602
0603
22223
2223
2223
2223
2226
2230
230
                                  BEGIN
               0604
                                    set up a pointer to the attribute and set up the size and
               0605
                                   find the attribute code
               0606
0607
                                         = .ABD[.I, ABD$W_TEXT] + ABD[.I, ABD$W_TEXT];
               0608
                                  COUNT = .ABD[.1, ABD$W_COUNT];
               0609
                                  CODE = .(.P)<0, 8>;
               0610
                                         = .P + 1:
               0611
               0612
0613
                                  ! test for table length
231
232
               0614
                                  IF .CODE GTRU ATR$C_MAX_CODE THEN ERR_EXIT(SS$_BADATTRIB);
234
               0616
0617
                                  ! check attribute length
235
236
237
               0618
                                  IF .ATR_TABLE[(.CODE-1),EQLLEN]
               0619
                                  THEN
238
               0620
                                      BEGIN
239
               0621
                                      IF .COUNT NEQU .ATR_TABLE[(.CODE-1),MAX]
               0622
240
                                      THEN ERR_EXIT(SS$_BADATTRIB);
               0623
241
                                      END
242
243
               0624
                                  ELSE
               0625
                                      BEGIN
244
               9590
                                           IF .COUNT GTRU .ATR_TABLE[(.CODE-1),MAX]
245
               0627
                                                THEN ERR_EXIT(SSS_BADATTRIB);
246
               0628
                                      END:
               0629
248
               0630
                                  ! call the correct procedure
249
               0631
               0632
0633
250
                                  CASE .CODE FROM 1 TO ATR$C_MAX_CODE OF
251
                                      SET
252
253
               0634
               0635
                                        ATR$C_RECATTR
ATR$C_FILNAM
                                                                : WRECATTR
                                                                                 .P, .COUNT );
                                                                                .COUNT, .P.
254
255
                                                                                              NMBLOCK );
               0636
                                                                : CH$MOVE
                                                                                COUNT, P, NMBLOCK + 6);
COUNT, P, NMBLOCK + 8);
P, COUNT);
P, COUNT);
P, COUNT);
P, COUNT);
               0637
                                         ATRSC FILTYP
                                                                : CH$MOVE
256
               0638
                                         ATRSC FILVER
                                                                : CHSMOVE
257
               0639
                                         ATRSC EXPDAT
                                                                  WEXPIREDT
258
               0640
                                         ATRSC BLOCKSIZE
                                                                : WBLOCKSZ
259
               0641
                                                                : WANSINAME
                                         ATR$CTASCNAME
               0642
260
                                                              ] : WBINDATE
                                       [ ATR$C_CREDATE
                                                                              (
261
                                                                                  BBLOCK[.HDR1,HD1$T_CREATEDT]);
262
263
               0644
                                                              ] : WBINDATE
                                                                            ( .P
                                       [ ATR$C_EXPDATE
                                                                                   . .COUNT.
               0645
                                                                                 BBLOCK[.HDR1,HD1$T_EXPIREDT]);
264
               0646
                                      [ ATR$C_HDR1_ACC
                                                              ] : BEGIN
```

```
H 11
                                                                                             16-Sep-1984 02:33:32
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                                                                                                                                VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                    Page
V04-000
                                                                                                                                                                                                              VO
                                                                                                                                [MTAACP.SRC]WTATTR.B32:1
                      CHAR_INPUT = .ANSI_A_GOOD [ .(.P)<0.8> ];
                                                                                            ACCESS_INPUT = MTASK_CHARVALID;
                                                                                                                                                                                                             ! These are either read only attributes or unimplemented ones
                                                    [ ATR$C_HEADER,
ATR$C_USERLABEL,
ATR$C_ENDLBLAST,
                                                       ATP$C_UIC_RO
                                                                                 ] : ERR_EXIT ( SS$_BADATTRIB );
                                                       The following are valid for DISK but not TAPE, so we will drop them on the floor (NO OP) for device independence sake
                       0660
                                                       If these values are asked for during read attributes we will
                       0661
                                                        dummy them up
                       0662
0663
                                                       INRANGE statement is used for speed and code size sake
                                                   [ ].
                       0664
                                                   ATRSC UCHAR,

ATRSC STATBLK,

ATRSC ASCDATES,

ATRSC ALCONTROL,

ATRSC BAKDATE,

ATRSC BAKDATE,

ATRSC FPRO,

ATRSC FPRO,

ATRSC ACLEVEL,

ATRSC SEMASK,

ATRSC DIRSEQ,

ATRSC DIRSEQ,

ATRSC BACKLINK,

ATRSC JOURNAL

INRANGE

TES;
                       0665
                       0666
                       0667
                       0668
                                                                                 !!!!!!!!!!!! This One Should be Fixed !!!!!!!
                       0669
                       0670
                       0671
                       0672
0673
                       0674
                       0675
                       0676
                       0677
                       0678
                       0679
                       0680
                       0681
                                                    TES:
                      0682
0683
                                              END:
                       0684
                                           Call the accessibility system service to determine the accessibility char
                       0685
                                           to write on the label.
                       0686
                                           First keep the record that the UCB is reading. The accessibility
                       0687
                                           routine can not move the tape from under us! Thus we will compare
                       0688
                                           this to the field after the call and if the tape was moved we punt
                       0689
                                          the operation.
                       0690
                                        MVL = .CURRENT_VCB[VCB$L_MVL];
ORB = .CURRENT_UCB[UCB$L_ORB];
CURRENT_RECORD = KERNEL_CALL(GET_RECORD, .CURRENT_UCB);
CHAR = $MTACCESS(LBLNAM = .HDR1,
CHAR = $MTACCESS(LBLNAM = .HDR1)
                       0691
                      0692
0693
                      0694
                      0695
                                                                    UIC = .ORB[ORB$L OWNER]
                       0696
                                                                    STD_VERSION = .MVL[MVL$B_STDVER],
                                                                   ACCESS_CHAR = .CHAR_INPUT,
ACCESS_SPEC = .ACCESS_INPUT,
TYPE = MTASK_OUTHDR1);
                       0697
                       0698
                       0699
                       0700
                       0701
                                        STATUS = KERNEL_CALL(GET_RECORD, .CURRENT_UCB);
IF .CURRENT_RECORD NEQ .STATUS
                       0702
                                              THEN ERR_EXIT(SS$_TAPEPOSLOST);
```

WTATTR

266 267

270

273

275

277

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295

297

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```
[ 11
WTATTR
                                                                           16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                 Page
V04-000
                                                                                                       [MTAACP.SRC]WTATTR.B32;1
                  0704
0705
0706
0707
   ! Write the char to the label.
                                HDR1[HD1$B_FILACCESS] = .CHAR[0];
                  0708
                  0709
                                  after both blocksize and maximum record size attributes have been
                  0710
                                  processed then determine the value of reclen in HDR2
                  0711
                  0712
0713
                                IF .MRS EQLU 0
                                THEN
                  0714
0715
                                     (CH$MOVE(HD2$S_BLOCKLEN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLEN]))
                                ELSE
                  0716
0717
                                     BEGIN
                  0718
                                     ! count overhead for ANSI 'D' record
                  0719
                  0720
0721
0723
0724
0726
0726
0727
0731
0735
0735
                                     if .HDR2[HD2$B_RECFORMAT] EQL 'D' THEN MRS = .MRS + 4 + .VFCHDR;
                                     ! FAO output descriptor
                                     DESCR[0] = HD2$S RECLEN;
DESCR[1] = HDR2[RD2$T RECLEN];
SYS$FAO(CVT5, 0, DESCR, .MRS);
                                     END:
                                  now check
                                       that the block size is valid
                                   and that the record size is not bigger then the block size
                                  and that variable records are not larger then can be supported ( RCW )
                                       ( .BLOCKSZ LSSU 18 )
                                    OR ( .MRS GTRU .BLOCKSZ )
                  0736
0737
                                    OR ( ( .MRS GTRU (9999 - 4) ) AND ( .HDR2 [ HD2$B_RECFORMAT ] EQL 'D' ))
   355
                                THEN ERR_EXIT(SS$_BADATTRIB);
   356
357
                  0738
                  0739
                                END:
                                                                                      .TITLE
                                                                                               WTATTR
                                                                                               \V04-000\
                                                                                      .IDENT
                                                                                      .PSECT $CODE$, NOWRT, 2
                                                       5A 35 21 00000004
                                                                                      .ASCII \!5ZW\
                                                                      00000 P.AAB:
                                                                      00004 P.AAA:
                                                                                      ,LONG
                                                          00000000
                                                                      80000
                                                                                       .ADDRESS P.AAB
                                                   4C 58 38 21
00000004
                                                                      ĎŎŎŌĊ P.AAD:
                                                                                      .ASCII \!8XL\
                                                                      00010 P.AAC:
                                                                                      .LONG
                                                          00000000
                                                                                      .ADDRESS P.AAD
                                                                     00014
                                                                                      .PSECT $LOCKEDD1$,NOEXE,2
                                                                      00000 MRS:
                                                                                      .BLKB
                                                                      00002 VFCHDR: .BLKB
                                                                      00004 BLOCKSZ:.BLKB
                                                                     00008 ANSI_NAME_SIZE :: ... BLKB
```

V0

59

59

0060

0082 0007

0096

0009

0009

0009

0009

0009

0009

0009

0009

VQ.

07FC 00000 WRITE_ATTRIBUTE, Save R2,R3,R4,R5,R6,R7,R8,-; 0533 5E 50 5A C2 00002 D0 00005 0000G ČF 0593 9200 9200 BO 8F CF DO 0000A 3C 0000E 0594 CF 0000 0596 0000 D4 00015 0595 01 7E A0 0000' CF 8E 00019 0598 D4 0001E 3C 00020 D7 00024 0599 32 7E 0601 6E 05 DO 00026 30 00029 7E 0002C 1\$: 57 010C 50 58 58 6A47 0607 60 50 30 00030 CO 00033 7F 00036 3C 0003A 9A 0003D 02 AA47 0608 59 56 30 9E 88 56 02 34 0609 D1 00040 0614 1B 00043 BF 00045 0E 0000GCF46 E9 00047 25: 0618 0000GCF46 DF 0004D 0621 ED 00052 13 00057 11 00059 9E 80 10 00 0622 0000GCF46 DF 0005B 3\$: 0626 00 02 34 56 9E 80 ED 1E 00060 00065 00067 4\$: 00069 5\$: 00060 6\$: 00075 0627 0632 BF 01 0009 0072 0007 2F 00C9 007A CF 0069 006A 0069 008C 00C7 0007D 9009 ŎŎČ9 00085 0008D 00A8 ŎŎČ9 ÖĂÖ 0009 00C9 00095 0009 0009 0009D 000A5 00C7 0009 00B8 00C9 0009 00C9 0009 0009 OOOAD 195-65. 0009 0009 00C9 000B5 185-65. 0009 0009 0009 000BD 125-65,-0009 0009 0009 18\$-6\$,-000c5 198-68,-

| JTATTR /04-000 | | | K 11 16-Sep-198 14-Sep-198 | 4 02:33:32 4 12:46:51 | VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1 | Page 9 (2) |
|-------------------|-------------|---|--|--|--|---------------|
| | | | | 19\$-6 18\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 19\$-6 | | |
| 0000G | 0000V CF | 7E 58 CF 02 5F 68 59 57 | 11 000D5 2 8 00 0D 7 8\$: | MUVCS COUNT | SP) RECATTR , (P), NMBLOCK | 0635 0636 |
| 0000G | CF | 68 59 4F | 28 000DF 9\$: 11 000E5 | BRB 19\$ MOVC3 COUNT BRB 19\$ | , (P), NMBLOCK+6 | 0637 |
| 00006 | CF | 68 59 47 | 28 000E7 10 \$: | MOVC3 COUNT Brr 19\$ | , (P), NMBLOCK+8 | 0638 |
| | 0000v | 7E 58 CF 02 | rB UUUrZ | MOVQ P, -() | SP) EXPIREDT | 0639 |
| | 0000v | 7E 58 CF 02 | 11 000F7 7D 000F9 12 \$: | BRB 19\$ MOVQ P, +(: | SP) | 0640 |
| | 00004 | 7F 58 | 11 00101 - 8 | BRB 19\$ | BLOCKSZ SP) | 0641 |
| | 0000v | CF 02 33 7E 58 CF 02 29 CF 29 CF 2F 7E 58 | FB 00106 11 0010B | CALLS #2, W/ Brr 19\$ | ANSINAME | : |
| | 7E 0000G | CF 29 06 | [1 0010D 14 % : / | ADDL3 #41, 1 BRB 16\$ | HDR1, -(SP) HDR1, -(SP) | 0643 |
| | 7E 0000G | CF 2F 7E 58 | C1 00115 15 \$: / | ADDL3 #47, (| HDR1, -(SP) SP) | 0645 |

WT VO

| | | | | | | 10 10 10 | 11 6-Sep- 4-Sep- | 1984 02:33 1984 12:46 | 3:32 VAX-11 Bliss-32 V4.0-742 5:51 [MTAACP.SRC]WTATTR.B32;1 | Page 10 (2) |
|----|-----------|-------------------|----------------------------------|---|--|--|-------------------------|--|---|--|
| | | 0000v | CF | 03 11 | F B 11 | 0011E | | CALLS Brb | #3, WBINDATE | ; |
| | | 08 | 50 6E AE | 0000GCF40 01 02 34 | 9A 90 00 11 BF | 0011E 00123 00125 0012E 00132 | 17\$: | MOVZBL MOVB MOVL BRB CHMU | (P) RO ANSI A GOOD[RO], CHAR_INPUT #1, ACCESS_INPUT 19\$ #52 | 0647 0648 0632 |
| | | 04 | AE | 57 57 03 | D6 D1 1A | 00136 00138 0013C 0013E | 18\$: 19\$: 20\$: | INCL CMPL BGTRU | I 1 4(SP) 21 s | ; 0656 ; 0601 |
| | | | 52 50 53 | FEEB 34 AB 0000G CF 1C A0 50 | 31 00 00 00 00 | 00141 00145 0014A | 21\$: | BRW MOVL MOVL PUSHL PUSHL | 1\$ 52(CURRENT_VCB), MVL CURRENT_UCB, RO 28(RO), ORB RO #1 | 0691 0692 0693 |
| | | 000000006 | 9F 54 | 0000G CF 04 50 03 | DD 9F FB DO DD | 00152 00154 00158 0015F 00162 | | PUSHAB PUSHAB CALLS MOVL PUSHL | SP GET_RECORD #4, a#SYS\$CMKRNL RO, CURRENT_RECORD #3 | 0699 |
| | | | 7E 7E | 0C AE 08 AE 22 A2 63 | DD 9A 9A DD | 00108 | | PUSHL MOVZBL MOVZBL PUSHL | ACCESS INPUT CHAR INPUT, -(SP) 34(MVL), -(SP) (ORB) | |
| | | 000000006 | 00 52 | 0000G CF 06 50 0000G CF 01 | DD FB DD DD | 00171 00175 0017C 0017F 00183 | | PUSHL CALLS MOVL PUSHL PUSHL | HDR1 #6, SYS\$MTACCESS RO, CHAR CURRENT_UCB #1 | 0701 |
| | | 000000006 | 9F 50 | 0000G CF 04 54 04 | DD 9F FB D1 13 | 00185 00187 00188 00192 00195 | | PUSHAB PUSHAB CALLS CMPL BEQL | SP GET_RECORD #4, @#SYS\$CMKRNL CURRENT_RECORD, STATUS | 0702 |
| | | 35 | 50 A0 56 57 | 0224 8F 0000G CF 52 0000G CF 0000' CF | BF DO 90 DO 30 | 00197 00198 001A0 001A4 001A9 | 22\$: | CHMU MOVL MOVB MOVL MOVZWL | 22\$ #548 HDR1, R0 CHAR, 53(R0) HDR2, R6 MRS R7 | 070 ³ 0707 0714 0712 |
| 0A | A6 | 05 | A 6 | 08 05 | 12 28 11 | 001AE 001B0 | | BNEQ MOVC3 | #5. 5(R6), 10(R6) | 0714 |
| | | 44 | 8 F | 04 A6 | 91 | 001B8 | 23\$: | BRB CMPB | 25\$ 4(R6), #68 | 0720 |
| | | 0000° 00 10 | 50 51 CF AE AE 7E | 0000 ° CF 04 A740 51 05 0A A6 0000 ° CF 10 AE | 12C 9E | 001BF 001C4 001C9 001CE 001D2 001D7 | 24\$: | BNEQ MOVZWL MOVAB MOVL MOVAB MOVZWL PUSHAB | VFCHDR, RO 4(R7)[RO], R1 R1, MRS #5, DESCR 10(R6), DESCR+4 MRS, -(SP) DESCR | 0724 0725 0726 |
| | | 000000006 | 9F 12 | FE07 CF 04 0000' CF 20 | 94 9F FB D1 1F | 001DF 001E1 001E5 001EC | 25\$: | CLRL PUSHAB CALLS CMPL BLSSU | -(SP) CYT5 M4, amsys\$fao BLOCKSZ, M18 26\$ | 0734 |

WT VO

| WTATTR V04-000 | | | M 11 16-Sep-1984 02:33:32 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:51 [MTAACP.SRC]WTATTR.B32;1 | Page 11 (2) |
|-------------------|------------|------------------------------|--|------------------------------|
| 0000° CF | 0000° CF | 10 270B 8F 50 44 8F | 00 ED 001F3 CMPZV #0, #16, MRJ, BLOCKSZ 15 1A 001FC BGTRU 26\$ 0000' CF B1 001FE CMPW MRS, #9995 0E 1B 00205 BLEQU 27\$ 0000G CF D0 00207 MOVL HDR2, R0 04 A0 91 0020C CMPB 4(R0), #68 02 12 00211 BNEQ 27\$ 34 BF 00213 26\$: CHMU #52 04 00215 27\$: RET | 0735 0736 0737 0737 |
| : Routine Size: | 534 bytes. | Routine Rase: | \$CODE\$ + 0018 | |

WT VO

Routine Size: 534 bytes, Routine Base: \$CODE\$ + 0018

```
WTATTR
                                                                          16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
                                                                                                      VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1
V04-000
                  0740
0741
0742
0743
0744
   359
360
                           ROUTINE WEXPIREDT (PTER, COUNT) : NOVALUE =
   1++
                              FUNCTIONAL DESCRIPTION:
                                     This routine puts the expiration attribute in HDR1
                              CALLING SEQUENCE:
                                     WEXPIREDT (ARG1, ARG2)
                  0749
0750
0751
0753
0754
0755
0757
0758
                              INPUT PARAMETERS:
                                     ARG1 - address of attribute(ddmmmyy)
                                     ARG2 - number of characters in attribute
                              IMPLICIT INPUTS:
                                     none
                              OUTPUT PARAMETERS:
                                     none
   378
379
                  0760
                              IMPLICIT OUTPUTS:
                  0761
0762
0763
   380
                                     expiration date in HDR1 updated
   381
382
383
                              ROUTINE VALUE:
                  0764
                                     none
   384
                  0765
   385
                  0766
                              SIDE EFFECTS:
   386
                  0767
                                     none
   387
                  0768
   388
                  0769
                              USER ERRORS:
   389
                                     SS$_BADATTRIB - attribute length must equal 7 or illegal date
   390
   391
   392
393
                                BEGIN
   394
395
   396
                                     ZERO_JDATE : VECTOR [ 6, BYTE ];! zero Julian Date of " 00000"
   397
   398
                                EXTERNAL ROUTINE
   399
                  0780
                                     CONVDATE_R2J;
                                                                          ! convert date from reg to JULIAN(ANSI)
   400
   401
                                LOCAL
   402
                                              : VECTOR [12, BYTE];
                                     DATE
                                                                          ! work area for date with dashes
   404
                                IF (.(.PTER) EQL 0) AND (.(.PTER+4) EQL 0)
                  0786
                                THEN
   406
                  0787
   407
                  0788
                                     ! if expiration is binary zero, then no date thus stuff zero date
   408
                  0789
   409
                  0790
                                     (CH$MOVE ( 6, ZERO_JDATE, BBLOCK[.HDR1, HD1$T_EXPIREDT] ))
   410
                  0791
                  0792
0793
   411
                                ELSE
   412
                                     BEGIN
                  0794
                  0795
   414
                                     ! now format DD-MMM-YYYY from DDMMMYY
                  0796
```

Page 12 (3)

V0

```
B 12
WTATTR
                                                                                       16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
                                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                              13
(3)
                                                                                                                                                                        Page
V04-000
                                                                                                                       [MTAACP.SRC]WTATTR.B32:1
                                           (DATE)<0, 16> = .(.PTER);
(DATE + 2)<0, 8> = '-';
(DATE + 3)<0, 24> = .(.PTER + 2);
(DATE + 6)<0, 24> = '-19'
(DATE + 9)<0, 16> = .(.PTER + 5);
    416
                                                                                              day
    417
                      0798
                                                                                               dash
                      0799
    418
                                                                                               month
    419
                      0800
                                                                                               century
                      0801
                                                                                            ! year
                      0802
0803
                                           IF NOT CONVDATE_R2J(DATE, BBLOCK[.HDR1, HD1$T_EXPIREDT])
                      0804
                                           THEN
                      0805
                                                 ERR_EXIT(SS$_BADATTRIB);
                      0806
0807
                                           END;
                      0808
                                      END:
                                                                                                    .EXTRN
                                                                                                              ZERO_JDATE, CONVDATE_R2J
                                                                          007C 00000 WEXPIREDT:
                                                                                                               Save R2,R3,R4,R5,R6 #12, SP PIER, R6
                                                                                                     .WORD
                                                                                                                                                                             0740
                                                                                                    SUBL 2
                                                     5E
56
                                                                             00
                                                                 04
                                                                        ĂČ
                                                                                 00005
                                                                                                    MOVL
                                                                                                                                                                             0785
                                                                        66
12
                                                                             DS
                                                                                 00009
                                                                                                    TSTL
                                                                                                               (R6)
                                                                             12
                                                                                                    BNEQ
                                                                                 0000B
                                                                                                               15
                                                                                 0000D
                                                                 04
                                                                                                               4(R6)
                                                                        A6
                                                                        0D
                                                                                 00010
                                                                                                    BNEQ
                                                                                                               15
                                                              0000G
                                                                             DO 00012
                                                                        CF
                                                                                                                                                                             0790
                                                                                                    MOVL
                                                                             28
04
                                           0000G
                                                                                 00017
                                                                                                               #6, ZERO_JDATE, 47(RO)
                           2F
                                  A0
                                                                        06
                                                                                                    MOVC3
                                                                                 0001E
                                                                                                    RET
                                                                                                              (R6), DATE
#45, DATE+2
2(R6), #0, #24, DATE+3
DATE+9
                                                                       66
2D
A6
                                                                                                    MOVW
                                                                                                                                                                             0797
                                                                             B0
                                                                                 0001F 1$:
                                                                             90
                                              02
                                                     AE
                                                                                 00022
                                                                                                                                                                             0798
                                                                                                    MOVB
        03
                                  18
                                                     0Ŏ
                                                                             FŎ
              AE
                                                                                                                                                                             0799
                                                                                 00026
                                                                                                    INSV
                                                                             9F
                                                                        AE
                                                                                 0002D
                                                                                                    PUSHAB
                                                                                                                                                                             0801
                                                                                                               #1, a#^x0039312D
5(R6), R1
R1, (R0)
                                      0039312D
                                                                        01
                                                                             FB
                                                                                 00030
                                                                                                    CALLS
                                                     51
                                                                        A6
51
51
2F
                                                                 05
                                                                             DŌ
                                                                                 00037
                                                                                                    MOVL
                                                     60
                                                                             BÓ
                                                                                 0003B
                                                                                                    MOVW
                                                                                                              R1, NO, W24, DATE+6
W47, HDR1, -(SP)
DATE
                                  18
7E
        06
              AE
                                                     ÕÕ
                                                                             FO
                                                                                 0003E
                                                                                                    INSV
                                           0000G
                                                                             CI
                                                    CF
                                                                                 00044
                                                                                                                                                                             0803
                                                                                                    ADDL3
                                                                       AE
02
50
34
                                                                             9F
                                                                 04
                                                                                 0004A
                                                                                                    PUSHAB
                                                                                                               #2, CONVDATE_R2J
R0, 2$
#52
                                           0000G
                                                                             FB
                                                                                 0004D
                                                                                                    CALLS
                                                     02
                                                                             E8
                                                                                 00052
                                                                                                    BLBS
                                                                                 00055
                                                                             BF
                                                                                                                                                                             0805
                                                                                                    CHMU
                                                                             04
                                                                                 00057 25:
                                                                                                                                                                             0808
                                                                                                    RET
: Routine Size: 88 bytes.
                                         Routine Base: $CODE$ + 022E
```

VO.

C 12

Page 14

! copy record attributes into HDR3 in hexadecimal format...

PARTIAL_CNT = .COUNT - 1;

0921 0922

542

WT

VO

```
E 12
                                                                             16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
WTATTR
                                                                                                           VAX-11 Bliss-32 V4.0-742
                                                                                                                                                      Page 16 (4)
V04-000
                                                                                                           [MTAACP.SRC]WTATTR.B32;1
   543
544
545
                   0923
09226
09226
09228
0923
0933
0933
0933
                                  IF .PARTIAL_CNT GTR 28
                                  THEN
   546
547
                                      PARTIAL_CNT = 28;
   548
                                  DESCR[0] = 8:
   549
   550
551
555
555
555
555
                                  INCR I FROM 0 TO .PARTIAL_CNT BY 4 DO
                                      BEGIN
                                      DESCR[1] = HDR3[HD3$T_RECATR] + (.I*2);
SYS$FAO(CVT8, 0, DESCR, .(ATTRIBUTES + .I));
   556
557
                   0936
0937
                                  ! calculate maximum record size
   558
                   0938
                                  MRS = .(ATTRIBUTES + $BYTEOFFSET(FAT$W_RSIZE))<0, 16>;
   559
                   0939
                   0940
   560
                                  IF .MRS EQL 0
                   0941
   561
                                  THEN
                   0942
                                      MRS = .(ATTRIBUTES + $BYTEOFFSET(FAT$W_MAXREC))<0, 16>;
   562
   563
                   0944
   564
                                  ! Copy attributes to HDR2 too, for temporary support
   565
                   0946
0947
0948
0949
   566
                                   X = 1:
   567
   568
                                   IF NOT .X
   569
                                   THEN
                   0950
   570
                                      BEGIN
   571
                   0951
                                      PARTIAL_CNT = .COUNT;
   572
573
                   0952
0953
                                      IF .PARTIAL_CNT GTRU 20
                   0954
0955
   574
                                      THEN
   575
                                           PARTIAL_CNT = 20;
                   0956
0957
   576
                                      577
   578
                   0958
                   0959
   579
   580
                   0960
   581
                   0961
                                      END:
                   0962
0963
   582
   583
                                  END:
                                      44
                                           44
05
20
0A
                                                     56
03
                                 53
                                                                         00286 P.AAE:
                                                                                          .ASCII
                                                                                                   \UFDVDDDS\
                                                          02
20
05
                                                04
                                                                   ÕÕ
                                                                                                   0, 1, 2, 3, 4, 5, 6, 0
\MA MA\
                                                              01
                                                                         0028E P.AAF:
                                                                                          .BYTE
                                                                        00296 P.AAG:
                                                     4D
                                                               41
                                                                    4D
                                                                                          .ASCII
                                                     08
                                                                        0029C P.AAH:
                                                              01
                                                                   00
                                                                                                   0, 1, 2, 8, 9, 10
                                                                                          .BYTE
                                                                                RECTYPE_ANSI=
RECTYPE_FILE11=
RECATTR_ASCI=
                                                                                                        P.AAE
                                                                                                        P.AAF
                                                                                                        P.AAG
                                                                                RECATTR_FILE11=
                                                                                                        P.AAH
```

OOFC 00000 WRECATTR:

.WORD Save R2,R3,R4,R5,R6,R7

: 0809

ΫÒ

F T

B0

12

ΒÒ

AE 05

AE

OA.

18

000BA 11\$:

000CC 12\$:

00000

000C5

00007

ACBL

MOVW

BNEQ

MOVW

RET

52

04

A7

A7

FE

FE

FFD9

PARTIAL CNT, #4, I, 10\$ ATTRIBUTES+2, MRS

ATTRIBUTES+16, MRS

0930

0938

0940

WTATTR V04-000

G 12 16-Sep-1984 02:33:32 14-Sep-1984 12:46:51 VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1

Page 18 (4)

; Routine Size: 205 bytes. Routine Base: \$CODE\$ + 02A2

```
H 12
WTATTR
                                                                              16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
                                                                                                           VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1
V04-000
   585
586
587
                   0964
0965
                             ROUTINE WBLOCKSZ (ADDR, LENGTH) : COMMON_CALL NOVALUE =
                   0966
0967
0968
0969
0970
0971
0972
                             1++
   588
589
590
                               FUNCTIONAL DESCRIPTION:
                                       This routine writes the block size
   591
   592
593
                                CALLING SEQUENCE:
                                       WBLOCKSZ (ARG1, ARG2)
   594
595
                   0974
                                INPUT PARAMETERS:
   596
597
598
                   0975
                                       ARG1 - address of attribute ARG2 - length of attribute
                   0976
0977
   599
                   0978
                                IMPLICIT INPUTS:
                   0979
   600
                                       none
                   0980
0981
0982
0983
   601
   602
                                OUTPUT PARAMETERS:
                                       none
   604
                   0984
0985
0986
0987
   605
                                IMPLICIT OUTPUTS:
   606
                                       block size written to HDR2
   607
   608
                                ROUTINE VALUE:
                   0988
   609
                                       none
                   0989
   610
                   0990
   611
                                SIDE EFFECTS:
                   0991
   612
                                       none
                   0992
                   0993
                               USER ERRORS:
   614
                   0994
   615
                                       SS$_BADATTRIB - block size attribute neg to 2
                   0995
   616
                                       SS$_NOTINTBLSZ - block size on interchange tape not <=2048
   617
                   0996
                   0997
   618
   619
                   0998
                                  BEGIN
   620
                   0999
   621
622
623
624
625
626
                   1000
                                  EXTERNAL REGISTER
                   1001
                                       COMMON_REG;
                                                                                        ! Set up reference to the VCB
                   1002
                   1003
                                  MAP
                   1004
                                       ADDR
                                                : REF VECTOR [, BYTE]:
                                                                                        ! address of attribute
                   1005
   627
                   1006
                                  LOCAL
                   1007
   628
                                       DESCR
                                                : VECTOR [2]:
   629
630
                   1008
                   1009
                                  BLOCKSZ = .(.ADDR)<0, 16>;
   631
                   1010
   632
                   1011
                                    If this tape is being created for interchange do not allow VMS
                   1012
                                  ! specific values in this field
   634
                   1014
                                  IF .CURRENT_VCB[VCB$V_INTCHG]
   636
                   1015
                                  THEN
                   1016
   637
                                       IF .BLOCKSZ GTRU 2048
   638
                                       THEN
   639
                   1018
                                            ERR_EXIT (SS$_NOTINTBLSZ);
                   1019
   640
                   1020
   641
                                  DESCR[0] = HD2$S_BLOCKLEN;
```

E)

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M

| WTATTR V04-000 : 642 : 643 : 644 | 1021 1022 1023 | 2 | DESCR[1] = SYS\$FAO(CV END; | = HDR2[/T5, 0, | HD2\$T_BL DESCR, | 0(KL .BL0 | EN] | | I 12 6-Sep-19 4-Sep-19 | 984 02:33 984 12:46 | 3:32 VAX-11 Bliss-32 V4.0-742 6:51 [MTAACP.SRC]WTATTR.B32;1 | Pag e 20 (5) |
|--|----------------------|----------|-----------------------------------|--|---------------------|----------------------------|----------------------------|--|------------------------------|--|--|--|
| | 04 | OC AE | 00000800 | 52 5E 62 AB 8F 6E CF | 0000° 04 01D4 | CF 08 04 04 05 05 | 9E23C1 11BBF D01 | 00002 00007 0000A 0000E 00013 0001A 0001C 00020 | WBLOCKS | WORD MOVAB SUBL2 MOVZWL BBC CMPL BLEQU CHMU MOVL ADDL3 PUSHL | 1\$ #468 #5, DESCR #5, HDR2, DESCR+4 | : 0964 : 1009 : 1014 : 1016 : 1018 : 1020 : 1021 : 1022 |
| | | | 0000000G | 9f | 04 FC60 | 62 AE 7E CF 04 | DD 9F 04 9F 04 | 0002C 0002F 00031 00035 | | PUSHAB CLRL PUSHAB CALLS RET | BLÓCKSZ DESCR -(SP) CVT5 M4, amsys\$fao | 1022 |

; Routine Size: 61 bytes, Routine Base: \$CODE\$ + 036F

: 645 1024 1

EEEEEEEE

```
16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
WTATTR
                                                                                                                             VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1
V04-000
                      1025
1026
1027
1028
   647
648
                                  ROUTINE WBINDATE (INPUT, INPLEN, OUTPUT) : NOVALUE =
   1++
                      1029
                                     FUNCTIONAL DESCRIPTION:
                                             This routine converts a 64 bit input date to an ANSI Julian date
                      1031
1032
1033
                                    CALLING SEQUENCE: WBINDATE (ARG1, ARG2, ARG3)
                      1034
1035
1036
1037
1038
1039
1040
1041
1042
1043
                                     INPUT PARAMETERS:
                                            ARG1 - address of 64 bit date
ARG2 - length of date
ARG3 - address for Julian date to placed
   660
   661
   662
663
                                     IMPLICIT INPUTS:
                                             none
   664
   665
                                     OUTPUT PARAMETERS:
                      1044
1045
1046
1047
1048
   666
                                             ARG3 - address which receives Julian date
   667
   668
                                     IMPLICIT OUTPUTS:
   669
                                             none
   670
                      1049
   671
                                     ROUTINE VALUE:
   672
673
                      1050
                                             none
                      1051
   674
675
                      1052
                                     SIDE EFFECTS:
                                             none
                      1054
   676
   677
                      1055
                                    USER ERRORS:
                      1056
   678
                                             SS$_BADATTRIB - attribute length neq 8
   679
                      1057
                      1058
   680
                      1059
   681
   682
                      1060
                                       BEGIN
   683
                      1061
                      1062
   684
                                       LOCAL
   685
                                             REGDATE : VECTOR [12, BYTE], REGDESC : VECTOR [2];
                      1064
   686
   687
                      1065
                      1066
                                       EXTERNAL ROUTINE SYSSASCTIM
   688
   689
                      1067
                                                                    : ADDRESSING_MODE (ABSOLUTE),
                      1068
   690
                                             CONVDATE_R2J;
   691
                      1069
   692
693
                                       REGDESC[0] = 12;
REGDESC[1] = REGDATE;
SYS$ASCTIM(0, REGDESC, .INPUT, 0);
CONVDATE_R2J(REGDATE, .OUTPUT);
                      1070
                      1071
                      1072
   694
   695
                      1074
   696
                                                                                                         .EXTRN SYSSASCTIM
```

0000 00000 WBINDATE:

.WORD Save nothing

: 1025

E)

Mc

| WTATTR V04-000 | | | | K 12 6-Sep-1984 02:33:3 4-Sep-1984 12:46:5 | 32 VAX-11 Bliss-32 V4.0-742 51 [MTAACP.SRC]WTATTR.B32;1 | Page 22 (6) |
|---------------------------|-------------------------|---------------|--|---|---|----------------------|
| | 51 04 A1 | | 10 C2 0000 0C DD 0000 AE 9E 0000 7E D4 0000 AC DD 0000 AE 9F 0001 7E D4 0001 | PUSHL A MOVAB R CLRL - PUSHL I PUSHAB R | V16, SP V12 REGDATE, REGDESC+4 -(SP) INPUT REGDESC | 1070 1071 1072 |
| | 00000000G 9 | F 0C 0C | 7Ē D4 0001 04 FB 0001 AC DD 0001 AE 9F 0002 02 FB 0002 | CLRL - CALLS A D PUSHL C | -(SP) #4, @#SYS\$ASCTIM DUTPUT REGDATE | 1073 |
| ; Routine Size: 41 bytes, | 0000G CI Routine Bas | F | 04 0002 | CALLS A | 72, CONVDATE_R2J | 1074 |

```
L 12
16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
WTATTR
                                                                                                               VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1
V04-000
                              ROUTINE WANSINAME ( POINTER, LENGTH ) : COMMON_CALL NOVALUE =
   699
700
                    1076
                    1077
                           1
   701
702
703
704
705
706
707
708
710
711
                    1078
                           1
                    1079
                                FUNCTIONAL DESCRIPTION:
                    1080
                                        Writes the 17 or less character filename containing ANSI "a" characters
                    1081
                                         into the HDR1. The remainder of a VMS long filename is written into
                    1082
                                        the HDR4 label.
                    1084
                                 CALLING SEQUENCE:
                    1085
                                        WANSINAME ( pointer, length )
                    1086
                    1087
                                INPUT PARAMETERS:
                                        pointer - points to file name string length - length of the file name string
                    1088
   712
                    1089
                    1090
   714
715
                    1091
                                 IMPLICIT INPUTS:
                    1092
                                        none
   716
   717
                    1094
                                OUTPUT PARAMETERS:
   718
                    1095
                                        none
   1096
                    1097
                                 IMPLICIT OUTPUTS:
                    1098
                                        file name is stuffed into the header
                    1099
                    1100
                                ROUTINE VALUE:
                    1101
                                        none
                   1102
1103
1104
1105
                                SIDE EFFECTS:
                                        none
                   1106
1107
                                USER ERRORS:
                   1108
1109
1110
                                   BEGIN
                   1111
                   1112
1113
1114
                                   EXTERNAL REGISTER
                                        COMMON_REG;
                   1115
                                   EXTERNAL ANSI_A_BAD ESC_CHAR
                                                                      : VECTOR [ , BYTE ],
                   1116
                                                                       : BYTE:
                                  LOCAL TEMP ID
                   1118
   741
742
743
744
745
746
747
                                                                       : VECTOR [ FILE_SPEC_MAX,BYTE ],
                   1120
1121
1122
1123
1124
1125
1126
1127
1130
1131
                                        RETURN_LENGTH;
                                   ! check length of file name
                                   IF .LENGTH GTRU FILE_SPEC_MAX THEN ERR_EXIT ( SS$_BADFILENAME );
   749
750
751
752
753
754
                                   ! Space fill the temporary storage for the FILE_ID
                                   CH$FILL(' ',FILE_SPEC_MAX,TEMP_ID);
                                   ! translate into upper case and check for non-ANSI 'a' characters
```

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\$1

```
M 12
WTATTR
                                                                                          16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
                                                                                                                            VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                            [MTAACP.SRC]WTATTR.B32;1
   755
756
757
758
759
                                       113345
1113367
111339
111443
11144
1114
1114
1114
                                                                                                  .POINTER, ESC_CHAR, ANSI_A_BAD,
                                       THEN ERR_EXIT ( SS$_BADFILENAME );
                                       ! Move the filename into the headers and padd space left with spaces
    760
    761
                                       CH$MOVE (HD1$S_FILEID, TEMP_ID, HDR1[HD1$T_FILEID]);
CH$MOVE (HD4$S_FILEID_EXT, TEMP_ID[HD1$S_FILEID], HDR4[HD4$T_FILEID_EXT]);
    762
763
   764
765
                                          Check the length of the file name. If the file name will fit in the HDR1 fILE ID then set the HDR4 length to zero. Else set up
    766
767
                                          the lengths such that the HDR1 FILE ID is filed with the name then the remainder of the name is put in the HDR4 label with the size that is in the HDR4 label only.
    768
   769
770
                      1146
1147
1148
1149
1150
1151
1152
1153
1156
1157
                                          PLEASE NOTE that the actual implementation of this is different for volumes with a 4 in the VOL1 standard field as opposed to a 3 or less.
   771
772
773
                                          This is because the new standard allows us to write any kind
                                          of data in implementation dependant fields. The old standard did not allow
                                          us to do this.
   774
775
776
777
778
779
                                       BEGIN
                                             BIND
                                                   CVT2 = DESCRIPTOR ('!2ZW');
                                                  DESCR : VECTOR [2].
   780
781
782
783
784
785
                                                             REF BBLOCK
                                                  MVL
                      1158
1159
                                             MVL = .CURRENT_VCB[VCB$L_MVL];
                                             IF LENGTH LEQU HD1$5_FTLEID
                      1160
                      1161
                                                 BEGIN
                      1162
1163
                                                 IF .MVL[MVL$B_STDVER] GTR 3
   786
787
                                                        THEN
                      1164
1165
                                                              HDR4[HD4$B_FILEID_EXT_SIZE] = 0
   788
789
790
791
792
793
794
796
797
                      1166
1167
                                                             CH$FILL(0,HD4$S_FILEID_EXT_V3,HDR4[HD4$T_FILEID_EXT_V3]);
                                                 END
                      1168
1169
1170
1171
1172
1173
1174
1175
1176
                                                 ELSE
                                                 BEGIN
                                                 IF .MVL[MVL$B_STDVER] GTR 3
                                                        THEN
                                                              HDR4[HD4$B_FILEID_EXT_SIZE] = .LENGTH - HD1$S_FILEID
                                                        ELSE
                                                        BEGIN
   798
799
                                                            LOCAL LEN;
                                                            LEN = .LENGTH - HD1$S FILEID;
DESCR[0] = HD4$S FILEID EXT V3;
   800
                      1178
   801
                                                            ĎĒŠČRĒ1J = HDR4[AD4$T_FILEID_EXT_V3];
   802
                                                            $FAO(CVT2,0,DESCR,.LEN);
   803
                      1180
                                                        END;
   804
                                                 END
                      1182
   805
                                             END:
   806
   807
                      1184
                                       ! strip trailing blanks from the string
   808
                      1185
   809
                      1186
1187
                                       RETURN_LENGTH = 0;
   810
                                       DECR I FROM (.LENGTH - 1) TO 0 DO
                      1188
                                             IF TEMP_ID [ .I ] NEQ
```

Page 24 (7)

| WTATTR V04-000 : 812 : 813 : 814 : 815 : 816 : 817 : 818 : 819 : 820 : 821 : 822 | | 1189 2 1190 3 1191 3 1192 3 1193 2 1194 2 1195 1 1196 2 1197 1 | | THEN BEGIN RETUR EXITL END; tell the ot ANSI_NAME_SIZ END; | N_LENGTH OOP her rout: | ines the | e si GTH; | ize of | | 84 02:33 84 12:46 me | :32 VAX-11 Bliss-32 V4.0-742 :51 [MTAACP.SRC]WTATTR.B32;1 | Page 25 (7) |
|--|----------|--|----------------------|--|--|--|--------------------------|--|-----------------|--|--|--|
| | | | | | 57 5/ | 0000000 0000000 | 21 04 00' | 003D9 | P.AAI: CVT2= | .ASCII .BLKB .LONG .ADDRES | \!2ZW\ 3 S P.AAJ P.AAI ANSI_A_BAD, ESC_CHAR | ; |
| 004F 0000G | 8F CF | 0000G 04 05 | 20 CF A0 A6 | 04 BC 08 AE 08 AE 56 | 0818 08 0048 0006 0006 0006 | AEC 04 F 0 AEC 04 F 0 AEC 05 5 1 4 F F 1 F E B C 0 AEC 05 5 1 4 F F 1 F E B C 0 AEC 05 6 3 AEC 05 6 AEC 05 | 901BC F 0453F080801A1B41 | 00006 000014 0000118 0000118 0000033 0000033 0000057 000057 000057 000057 | 2\$: 3\$: | ME: WORD MOVAB CMPLU CMPLU MOVC5 MOVTU BURLU MOVC3 MOVL3 MOVL3 MOVL3 MOVL BGTRU CMPBU CMPB | Save R2,R3,R4,R5,R6 -88(SP), SP LENGTH, N79 1\$ W2072 W0, (SP), W32, W79, TEMP_ID LENGTH, aPOINTER, ESC_CHAR, ANSI_A_BAD, - W79, TEMP_ID 2\$ R1 R1 3\$ W2072 HDR1, R0 W17, TEMP_ID, 4(R0) HDR4, R6 W62, TEMP_ID+17, 5(R6) 52(CURRENT_VCB), MVL LENGTH, W17 5\$ 34(MVL), W3 4\$ 4(R6) 7\$ 67(R6) | 1124 1128 1128 1132 1134 1138 1139 1158 1159 1162 1164 1166 |
| | | | 51 | 08 AC 03 04 A6 50 6E | 22 | 2E 11 2 A0 06 51 | 1B 90 11 | 00064 00067 00069 0006E 00072 00074 00078 | | BRB SUBL3 CMPB BLEQU MOVB BRB MOVL MOVL | 7\$ #17, LENGTH, R1 34(MVL), #3 6\$ R1, 4(R6) 7\$ R1, LEN #2, DESCR | 1166 1159 1172 1170 1172 1176 1177 |

-| |

_(

| WTATTR V04-000 | | | | | | 10 | 3 13 5-Sep- 4-Sep- | 1984 02:33 1984 12:46 | : 3 2 : 51 | VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]WTATTR.B32;1 | Page 26 (7) |
|-------------------|----------|----------------|----------|----------------------------|---------------------------|----------------------------------|---------------------------------|--|-------------------------|--|--|
| | 04 | AE | 43 04 | A6 50 AE 7E | 9E DD 9F D4 | 00080 00085 00087 0008A | | MOVAB PUSHL PUSHAB CLRL PUSHAB | LEN DESCR -(SP) | , DESCR+4 | : 1178 : 1179 |
| | 00000000 | 00 | FF68 | CF 04 51 | 9F FB D4 | 0008C 00090 00097 | 7\$: | CALLS | CVT2 #4 SY RETURN | S\$FAO LENGTH , I | 1186 1187 |
| | | 50 52 20 | 80 80 | AC 10 AE40 52 | 04 00 19 9 01 | 00099 0009b 0009f | 8\$: | BRB | 95 | | ; 1187 ; 1188 |
| | | 51 | 01 | 06 A0 03 50 51 | 13 9E 11 | 000A4 000A7 000A9 000AD | | CMPL BEQL MOVAB BRB | 9\$ 1(RO), 10\$ | DCI], R2 32 RETURN_LENGTH | 1191 |
| | 0000 | ED CF | | 50 51 | F4 90 94 | | 9 \$: 10 \$: | SOBGEQ MOVB RET | I, 8\$ | LENGTH, ANSI_NAME_SIZE | 1191 ; 1190 ; 1188 ; 1197 ; 1199 |

; Routine Size: 184 bytes, Routine Base: \$CODE\$ + 03E4

Sy LI MT MT MT

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MT MT MT MT MT

MT

MT

```
D 13
WTATTR
                                                                              16-Sep-1984 02:33:32
14-Sep-1984 12:46:51
                                                                                                            VAX-11 Bliss-32 V4.0-742
                                                                                                                                                         Page 28 (8)
V04-000
                                                                                                            [MTAACP.SRC]WTATTR.B32:1
   881
882
883
                                    IF .AST NEQ 0
                                       AND
                                       ( NOT PROBER (MODE, LENGTH, .AST)
   884
                    1260
   885
                                       .AST[ACB$B_TYPE] NEQ DYN$C_ACB
   886
   887
                                       NOT .FUNCTION[IO$V_ACCESS])
   888
   889
                                       ERR_EXIT(SS$_ILLLBLAST);
   890
                    1267
1268
1269
1270
1271
   891
                                    END:
   892
893
                                    won't return any AST other than the currently recorded one
   894
   895
                                    KERNEL_CALL(COMPLETE_USRLBL, .AST, 0);
                   1272
1273
1274
1275
1276
   896
897
   898
                             END
   899
   900
                          0 ELUDOM
                                                PSECT SUMMARY
                                                                             Attributes
         Name
                                        Bytes
   $LOCKEDD1$
                                             9 NOVEC, WRT,
1180 NOVEC, NOWRT,
                                                                      RD , NOEXE, NOSHR, LCL, RD , EXE, NOSHR, LCL,
                                                                                                   REL,
REL,
                                                                                                           CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
   $CODE$
                                       Library Statistics
                                                                  Symbols
                                                                                             Pages
                                                                                                            Processing
         File
                                                       Total
                                                                             Percent
                                                                  Loaded
                                                                                             Mapped
                                                                                                            Time
   _$255$DUA28:[SYSLIB]LIB.L32;1
                                                       18619
                                                                       64
                                                                                             1000
                                                                                                              00:01.9
                                                 COMMAND QUALIFIERS
         BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS$:WTATTR/OBJ=OBJ$:WTATTR MSRC$:WTATTR/UPDATE=(ENH$:WTATTR)
                   1113 code + 76 data bytes
00:23.7
00:50.4
3235
  Size:
  Run Time:
  Elapsed Time:
: Lines/CPU Min:
```

Sy

: Lexemes/CPU-Min: 17863 : Memory Used: 187 pages : Compilation Complete

0256 AH-BT13A-SE VA.O

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